







Introduction



The World of Apple



Before you read on, please note that most of the products in this booklet are for use with the Apple II and Apple III product range, although our Apple III and Employ III product range, although our Apple III and Proties and Proties can all be used with Lita. Simply refer to the oght hand column of test for product compatibility. There are more people in more places doing more things with Apple personal computers than with any other computer in the world. Today more than 2,000,000 people own Apple computers and are using them in business, education, science, industry, and at home. They've discovered that an Apple personal computer can make their working time more productive, their leating time more expling, and their leasure time more entertaining and creative. ensertaining and creative

Better Still

With an Apple personal computer you'll soon lind that one thing leads to another You'll be surprised how easy it is to master new programs and expand your horizons. And you can achieve all this and more without any special training or any knowledge of

arcum ore wishout any spotoial training or any knowledge of programming.

An Apple system will also grow as your needs grow, thanks to the burt-in expansion capabilities, and to the wide range of peripher and and acceptories available.

Service and Support

Apple's world ando network of authorised service centres numbers over 2,000, and it's still growing. There are over 350 Apple dealers throughout Great Britain and your local dealer is in the best position to solve your individual reduitements.

Remember Apple Computer are the only company who produce a full range of perigonal computer products, all of which are covered by a full, one year warranty.

Accessories & Peripherals

Use this catalogue to repand your options with Apple accessories. Whether you're a master of games or a top industrial scientist Apple has a full range to offer. Ask your dealer for supplies of Monitors, Printer Interface Cards, Dot Matrix Printers, Daisy Wheel Printers, Joysticks. Numeric Reypads, Hand Controllers, Apple Colour Protters, and 80 Column Cards. In addition, there are over 400 accessory products produced by independent manufacturers. Phone our Product Support Department for further details (0442) 60244.

Throughout this catalogue the following symbols are used Apple II – meaning any Apple II, II + or I've system. Apple III – meaning Apple III computers only

Accessories and Peripherals

Apple #e 80-column Text Card

The Apple He 80-column Text Card doubles the standard display of your Apple He to 80 characters per screen line. With a video monitor connected to the computer, you can view 24 lines of either 40 or 80 characters each And from the keyboard, you can easily with high word those

Switch between these modes.

Designed for easy installation, the 80-column Text Card plugs directly into the Auxiliarry Connector slot Inside the computer, requiring no cables or additional connectors.

The Apple #60-column Text Card

doubles the number of characters which can be displayed on
the screen from 40 to 60 per line, so you can view more of the

the screen from 40 to bupper line, 50 you can view more of the text you're working with...

• utilises the standard Apple He video output, so you don't have to change cables to switch between 40- and 60-column displays ...

• provides different cursors for different modes, so you know immediately whether the Card is activated, and in what mode.

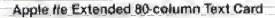
• activates several special, control functions for screen display and cursor movement, which are built into the Apple He.

Product Name Apple Ite 80-column Text Card

Product Number

Compatible With

Equipment Required
Apple I/e 64K
Available Auxiliary Connector slot



The Apple ## Extended 80-column Text Card adds an additional bank of 64K bytes to your Apple #f6's memory (for software designed to utilise it), and lets you double the computat's display capability to 80 characters per screen line.

By "extending" the memory capability of the Apple #e, the Text Card takes maximum advantage of several features of the computer. These features and extra memory are particularly useful for software developers or anyone needing extra program and data space in such applications as triancial modeling and data base management.

management
This Extended 80-column Text Card instatis easily in your Apple
We It simply plugs into the Auxillary Connector slot inside the
computer, requiring no cables or additional connectors

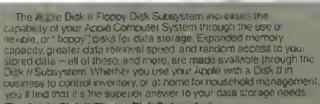
Product Name Apple I/e Extended 80-column Text Card

A2B2023

Compatible With

Equipment Required Apple #e 64K Available Auxiliary Connector slot

Disk # Floppy Disk Subsystem



you I find that it is the superior answer to your data storage needs.

The Apple Disk I/ Floppy Disk Subsystem

optimises ethiclency by offering one of the highest storage capacities available with any personal computer ...

increases productivity by allowing you to access data much more durekly than is opssible with cassette tapo ...

makes possible a wide range of computer applications by allowing software to necess data...

provides for greater system expansion than is possible with any other personal computer, supports up to three interface cards and six disk drives.

Product Name Disk // Floppy Disk Subsystem

Product Number A2M0044 (with controller) A2M0003 (without controller)

Compatible With Apple # + Apple No

Sectoring soft (hard-sectored disks may be used) Recording Surfaces: one Tracks per Surface: 35

Capacity
Formatted data capacity per surface, bytes: 140K, 16 sector (with Pascal, DOS 3.3 and PioDOS)

DuoDisk:

DooDisk is a twin 143K, two-thirds neight disk drive system designed for the Apple II family of computers its case is designed to the same width, colour and styling as the Apple II and Monitor II combination and is purpose built to lift.

personant wonter in combination and is purpose built to in between the two units. DuoDisk replaces the need to purchase two separate Disk !! drive units, although single Disk !! drive units are available. DuoDisk is supplied with a new interface card and cable to suit the Apple !!e

Additional Features

Additional Features

Easy to connect single cable # High speed seek, track to track

Band drive head positioning system.

DupDisk is suitable for all dual floppy disk applications such as Pascal and is compatible to existing Disk // systems

DupDisk connects to the Apple //e via a single screened multipore cable with 'D' connector cables at each end. The interface card connects to the backplane with a single 'D' connector sockel.

Product Name

Product Number

includes A2T0108Z Accessory Kit

Compatible With



and the Company and Company of the C

111,





Accessories and Peripherals

Monitor //



Apple's ponable, 12 non (30.5 cm) (diagonal), black & green member displays 80-character by 24 line lext and high resolution graphics with precision and high readability. Designed for use with

graphics with precision and high readability. Designed for use with Apple # computer systems.
Connects easity to your Apple computer via a standard cable, supplied with every Apple # system. From panel controls include power on/off and controls # Back panel controls include vertical hold, height, and brightness.

The monitor's case colour matches the colours of the Apple # computer, giving the whole system an appearance as professional as its performance. Whether you're performing word processing or preparing sales forecasts, this dependable monitor gives you file "big picture" you need to produce effective communications. big picture" you need to produce effective communications

Product Name Monitor #

Compatible With Any Apple II computer

Equipment Required

High-frequency video cable (supplied with Apple I/e)

Apple Joystick //e



The Apple Joystick is a true XY paddle control interface that's fun to use and simple to integrate into all kinds of programs. Easy to hold, it features a control shall that moves a full 360 degrees, a push-button fire switch, and a three-position, mode selecting, toggle

switch.

The Joystick was designed for use with Apple IIIe pystems and simply plugs into the game I/O socket on the machine. A uniquely designed mechanical interface converts the Joystick's shall motion to two analog signals (one for the X axis, the other for the Y axis). The result is a superbly professional feel and sensitivity that makes other paddles seem cumbersome.

Whether you employ it in applications requiring advanced hand input capabilities, Or just use it to play stimulating games, the Apple Joystick gives you an unbeatable degree of responsive, reliable control for your Apple computer system.

Product Number

Compatible With
Any Apple //e computer
Can be used with Apple // +
computer via Joystick adaptor cable
(A2M0082)

Numeric Keypad I/e



The Numeric Keypad *IIe* is specifically designed for use on the Apple *IIe* Personal Computer in business application environments. This flexible input device includes a full numeric keypad and twelve function oriented keys. The Apple *IIe* Keypad includes a four function (add, subtract, multiply, and divide) calculator section.

The Numeric Keypad *IIe's* target audience is in the business and professional environment. The Numeric Keypad *IIe* has been designed for use with the powerful, business oriented VisiCalc[®] software and is essential in accounting oriented numeric data entry any ronnents.

Product Number

Compatible With Apple #e Personal Computer

Equipment Required
Apple I/e Personal Computer
Disk with controller
Apple Monitor II

Hand Controllers I/e



The Apple Hand Controllers I/e are reliable, precision built game paddles which offer a new lavel of enjoyment to action oriented computer games. The dual diameter control knob atlows control of the paddle from either diameter and the precision fire button with factife feedback has been designed for long life and reliable operation. With the Apple Hand Controller I/e you can just also see tales.

plug and play

The Hand Controllers I/e are designed for the home computer game entitusiast who demands sturgly, precision game paddles to lake total advantage of highly action oriented game software.

Product Number

Compatible With Apple #a Personal Computer

Equipment Required
Apple Ite Personal Computer
Disk drive with controller
Apple Months are the controller Applicable games software

Can be used with Apple II + computer via Joystick adaptor cable (A2M0082)



Accessories and Peripherals

TV & Sound Modulator //e

The modulator accepts video and audio signals from the Apple its and produces a modulated UHF TV signal in colour with sound through the television speaker and/or the Apple I/a speaker

TV & Sound Modulator He

- Displays high quality PAL colour cheracters and graphics
 High quality sound through the television.
 Sturdy single point fixing.
 Quick and easy to fit

Power Requirement

Input Level Polarity DC Component Input Impedance Bandwidth Video.

Input Level Input Impedance Subcarrier Frequency Subcarrier Level

Output Frequency

Output level

+ #2V at approximately 25MA

2V Sync-White White Positive, Sync Negative Sync tips demoed at OV Approximately 1K OHM Within —

1DB to 4MHZ, - 4DB to ,5MHZ

0.5V peak gives 25KHZ deviation 47K OHM AC Coupled 6MHZ + / - 20KHZ 12DB below peak vision envelope

Channel E36 set at factory adjustable by user by up to + t = 3 Channels

4 14DBMV nominal peek vision envelope across 75 OHMS (+10DBMV minimum)

Colour IV arts are timed systems in contrast to many treat and while moretain. Shus usey are more sampling to this food suring and inserted by more comes subpress will hap in kepping interference, generated by more computers from learing into your or your emphopolis set. Coulton and country are necessary Checkwith a signer IV for interfering signess and sax your heighbours if interference suchs. Consult your local nearth.

Sup' R Mod II TV Interface Unit

The SUP' R MOD It is a wide band black and write or colour compatible interlace system intended to convert the home TV to a full video display for home computers, CCTV cameras and similar systems which output NTSC compatible composite video. The SUP' R MOD It is pre-tuned to U.S. Channel 33 (UHF), includes a coakial cable and antenne transformer, and in conjunction with a standard home TV set, insures safe isolation and high performance.

Product Name Sup' R Mod II

Product Name TV & Sound Modulator #e Product Number Competible With

Any Apple IIe System Any domestic UHF black & vinite or colour television

Product Number

Compatible With

Any Apple II + systems

Any domestic UHF black and white or colour Television
For colour with Apple # + systems
use the Apple Eurocolour Card
A2B9017

Bitstik 500 (Computer Aided Drawing Pack)

This combined Hardwire/Soltware package turns your Apple Hille computer system into a sophisticated graphics processor – allowing you to Draw, File, Copy and Edit graphic material of all types quickly and inexpensively.

All drawlogs are held on your own graphic fibrary for easy identification.

Hard copy of complete or part drawings can be made at any ume using the Apple Imagewriter printer or Apple Colour plotter for high quality output

The Bitstift 500

- The Bitstit 500

 Easy to learn and use. Saves time and effort

 Versatile the master software has all the functions you need to generate, combine, save, edit and display drawings and graphics

 Inexpensive enough for each diaftsman, designer or any individual with a graphic requirement.

 Text can be entered as part of your drawings at any time

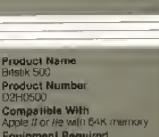
 Library disk filing system allows storage of an unlimited total number of drawings.

Equipment Required
Apple If Personal Computer
Two Disk Drives or one DuoDisk
Monitor II

Apple imagewriter or Apple Graphics Tablet or Apple Colour Plotter 410







Accessories and Peripherals

Mouse



The AppleMouse if is a hand-hold device, connected to your Apple computer by a flexible cable. As you roll your mouse about on the table next to your computer, it makes a cursor move in exactly the same way on your monitor screen. By moving the cursor to different symbols on the screen, you can telly our Apple what you want it to do. The AppleMouse II represents one of the simplest and most versafile computer input devices available today. Your mouse requires special software. If works only when you have loaded your computer with a program that has been written to it. One such program, MousePaint, is on the disk that came with your mouse. Other AppleMouse II programs are being developed, check with your Apple Mouse II programs are being developed, understand programming, you can even write your own mouse programs.

understand programming, you can even write your unit recose programs

Courrier: When you buy programs to use with your mouse, make sure that they are designed to be compatible with the AppleMouse II gives you an entirely new way to control your Apple II. If Plus, or II e computer. Here are a few examples of what you can do with the mouse:

You can cleate profures directly on the screen, as if your hand were holding an artist a pencil.

You can select menu options simply by moving the screen cursor to them, instead of having to type identifying codes.

You can move text or graphic elements around on the screen. All these techniques (and more) are drustrated in MouseParit, the graphics program that comes with your mouse.

Product Name AppleMouse // **Product Number**

Compatible With





Your new ProFile cask storage system is a highly reliable mass storage system that will increase the overall capabilities of your

The ProFile disk storage system consists of a lixed-miedia, random-access, 5¼ inch disk drive peckaged in a lightweight, compact cabinet, an interface card that you must install in your computer, an interface cable, and a power cable. ProFile is a Winchester-type device, meaning that the read/write heads, the disks, and the actuator mechanism are all enclosed in a sealed, profective, non-removable housing. ProFile differs from a flexible ("floppy") disk drive in that the ProFile differs from a flexible ("floppy") disk drive in that the ProFile disks are protected by a sealed housing, they cannot be removed or interchanged and therefore cannot be damaged or lost as floppy disks can.

The main advantages ProFile has over a floppy disk drive are.

Much greater data storage capacity (If lakes about 35 floppy disks to store the same amount of data as a 5 megabyte rigid disk, and proportionally more if your rigid disk has a larger storage capacity).

capacity)

• Higher reliability.
• Improved performance

in addition to your computer and ProFile drive, you should have at least one Apple flexible disk drive such as a Disk if it is used to load disks containing application programs and data that the computer needs to use a specific language and to communicate with an atteched peripheral device such as the ProFile.

You may connect your ProFile to any of the computers in the Apple If family However, the installation procedure will differ slightly depending on whether your computer is an Apple IIe, an Apple II, or an Apple II Plus.

Operating System
Your ProFile is designed to operate with the Professional Disk
Operating System (ProDOS). ProDOS is a computer program that
allows you to store information on your ProFile, restrange the
information already on your ProFile, and retrieve information from

See page 13 for further details

Product Name

Product Number A9M1005

Accessory Kill for Apple # A2T1005B

Compatible With Apple // Family

Equipment & Accessories needed to connect Apple He to ProFile

Interface cord Internal cable Flat blade screwdriver (not supplied) Wrench

Equipment & Accessories needed to connect Apple II or Apple II+ to ProFile

Interface cable
Philips screwdriver (not supplied)
Philips screws Interface card Two part retaining clamp Flat blade screwdriver (not supplied) Internal cable



Interface Cards and Expansion Options

The Apple II Super Serial Interface Card



The Applo II Super Serial Card allows Apple II computer systematic exchange data with other computers, moderns, printers, terminals, and accessories, employing a bi-directional RS-232C interface in serial format (one bit at a time). The Super Serial Card features an on-board switch that lets you operate either a printer or modern port. This switch also eliminates the need for special connection cables such as modern eliminators. The Super Serial Card's advanced circuitry and extensive resident software make it the single-card solution for all your serial communication needs.

The Apple II Super Serial Card...

- expends your system's usefulness by providing an industry standard (RS-232) interface to most computer accessories...
 is easily controlled from BASIC or Pascal by simple commands...
 provides access to a wide range of local and remote computer equipment, as it rapidly transfers data either by talephone (through a modern), or directly, at speeds from 50 to 19.2K baud...

Product Name Product Number

Compatible With

Equipment Required A Printer Modern or other External cable (A2M0052)

Parallel Interface Card



The Parallel Interface Card allows you to generate reports. Itstings, labels and fellers with your Apple computer using a variety of parallel-interfaced printers. Designed for user convenience, the Parallel Printer Interface Card consists of two sets of firmware, identical to the Centronics and Poratiel Printer Interface cards previously made by Apple The user can seted interface characteristics via seven card-resident switches – which eliminates the need to wire configuration blocks. Switch selection Includes strobe and acknowledge polarities, strobe length and firmware code. The Parallel Interface Card can also function as a general purpose input/output port, passing 8-bit parallel information to and from the Apple II without the intervention of firmware.

Product Name Paratlel Interface

Product Number

Equipment Required Any Apple II Computer Printer with para-lel interface requirements An external cable (A2M0052)

Hobby/Prototyping Card

Create your own Apple interface boards with this wire-wrap card the 2½ 1 x 7', double-sided clicuit board includes a hole pattern (on 100-mil centres) that accepts all conventional ICs and passive components. It plugs directly into any Apple expansion connector, and fits entirely within the computer case.

Product Name Hobby/Prototyping Card Product Number Compatible With Any Apple // Computer

Apple IEEE-488 Interface Card

With the Apple IEEE 488 interface Card installed, Apple computer systems can be used to program and operate virtually any test, measurement, or control instrument that is bus-compatible with the IEEE 488 interface standard The Interface card plugs into any expansion slot in the Apple II. its cable comes with a standard IEEE-488 bus plug for quick connection to IEEE-488 instruments. The IEEE-488 interface card simplifies design and implementation of complex instrument systems – including frequency generators, digital multimeters, programmable power sources, and other equipment. Powerful resident software allows you to program instrument control in BASIC and assembly language using straightforward macro commands (FORTRAN and Pascal users can access the card through assembly language routines). And there's no need to worry about signal protocal on the bus, because the card's resident software handles it all for you

Product Name Apple (EEE-488 Interlace Card Product Number

Arry Apple (II), or Apple III, each with a minimum 32K of meinory Apple Disk II volh controller Apple Monifor II



Accessories and Peripherals

Disk III



pory - one subsylvem that owns you to increase the data forage capacity of your Apple III as you to increase the data forage capacity of your Apple III as your needs expand. The Apple III Computer Syntem accepts up to three external days are in addition to the one built entire for a total on the storage lipacity of 560K byte. And because the Apple III was designed for the interpret of your miniparision, no extra control hardware or software are required at your add second, third, and fourth drives As alonage requirements increase, expand your system's capacity with Otik III. Apple's professional, reliable disk storage subsystems.

Disk III...

Increased your system's capabilities by othering you up to 560K bytes of on line storage capacity

Inaximises your system's lie vibility, because it allows you to exparid disk storage in step with your needs, in convenient 340K-byte increments.

I samplifies interfacing, because it quickly plugs in, and doe in a require any additional control hardware or software.

Product Name
Discill Product Number A3M0004

Compatible With Any Apple III





Apple's particle: 12 inch (30.5 cm; diagonal), black and green monitor displays 80-character by 244 he text and high resolution graphics with precision and high readability. Designed for use with Apple III computer systems, it will also display 40 characters per line when used with Apple III Plus computers, or when the Apple III is operating in Apple II emutation mode. The Monitor III connects easily to your Apple computer via a standard cablin, supplied with every Apple III system. Front penel controls include power or/off and contrast. Back banel controls include vertical hold, regist, and brightness.

The monitor's case colour match the colours of the Apple III computer, ground the whole system an appearance as professional as its porformance. Whether you're performing word processing or preparing sales to recast. Ith dependable monitor gives you the "big picture" you need to produce effective communications.

Product Name Moster III

Product Number A3M0039

Compatible With Any Apple III system RCA pligno-type connector cable (supplied with the Apple III)

Cursor III



The Ar an Corson Was a due X-Y paddle control interface that's fun to use and imple to integrate into all kinds of programs. Easy to hold at I late of a control shall that moves a full 350 degrees, a push-builton tire switch, and a three position mode selecting, loggle

switch

The Joyst, ik wall de spord for use with Apple III systems. With the Apple III, up to two Joysticks can be used, both of which pluglinto exerting sock. It in the back of the system. A uniquely designed mech, in call imerface converts the Joystick's shalt motion to two analog signals (one for the X axis, the other for the Y axis). The insult is a subgibly professional levil and sensitivity that makes other to be professional levil and put easable. The insult is a publications regulating advanced hand but easable is in or just use it to play stimulating garries, the Apple Joystick great your numberatable degree of responsive, rehable control for your Apple computer system.

Product Name Cursor III for Apple III Product Number A3M0010

Compatible With Any Apple III system

MicroSci A143 Floppy Disk Drive



The Microscilloppy disk sub-system supplied by Apple Computer is designed for knifty professional microcomputer applications built around Apple III

The Apple III vivil accept up to three of these high capacity bisk drives giving a total on fine storage capacity of over 1.7M bytes. As your storage requirements increase, expand your system's capacity with A143 – MicroSci's professional, rekable disk storage sub-system.

- MicroSci A143

 Increases your systems capabillies by offering you up to 17M bytes of on-line storage capacity

 It is impact your system's flexibility, because it allows you to grow your storage in step with your needs

 Simplifies interfacing no extra hardware required and does not consume any of Apple It's four expansion stots

 You can 'my and match' any combine'son of Disk It's and A143's

Product Name MicroSci A143 Product Number ESTAMEG



Interface Cards and Expansion Options

Apple III Universal Parallel Interface Card



The Apple III Universal Parallel Interface (UPI) Card lets users allech a variety of parallel mode printers – including most dol matrix models, plus some thermal and daisy wheel units – to Apple III computer systems. Included with the Card is a disk containing en operating system driver, which lats you custom configure the card to work with the printer you are using.

Because the UPI Card also emulates two Apple II interface cards – the Centronics interface Card and the Parallel Interface Card – it's able to control your printer directly from Apple III software, or from Apple III software running in emulation mode. And it spaces you from having to juggle different cards for different jobs. The Apple III UPI Card can also be used with equipment other than printers, functioning as a general purpose, parallel interface.

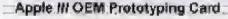
Because it's three cards in one, the Apple III Universal Parallel Interface Card gives you the convenience of printer plug-compatibility, the economy of Apple II printer emulation, and the flexibility of a fully-leafured parallel interface.

Apple III Universal Parallel Interlace Card

Product Number A3B0002

Compatible With

Any Apple III system with an available expansion slot





Apple s OEM Prototyping Card is a convenient, modular printed circuit card on which to build custom Interfaces for the Apple III Computer System. The card offers ampte space to handle the majority of Interface designs. If accommodates most integrated circuits and components, and has built-in facilities for affaching a variety of edge connectors and switches to your circuits. Also included are decoupling networks and shretds to ensure maximum immunity from RF noise.

Equally important, the OEM Prototyping Card assures you of Apple product quality and compatibility. The card is double-sided, with plated-through holes for positive connection. And its 50 pin, gold-plated edge connector plugs right into any unused expansion slot in your Apple III, giving you complate access to all the signals on the bus.

Product Name Apple III OEM Prolotyping Card

Product Number

A380001

Compatible With

Any Apple III system with an available expansion slot

IEEE:488 Standard Interface Card

With the Apple IEEE-488 Interface Card installed, Apple computer systems can be used to program and operate virtually any test, measurement, or control instrument that is busicompatible with the ISEE-488 interface standard. The interface card plugs into any expansion slot in the Apple ##. Its cable comps with a standard ISEE-488 bus plug for quick connection to ISEE-488.

Instruments.

The IEEE-488 Interface card simplifies design and implementation of complex instrument systems – including frequency generators, digital multimeters, programmable power sources, and other equipment. Powerful resident software allows you to program instrument control in BASIC and assembly language using straightforward macro commands (FORTRAN and Pascal users can access the card through assembly language routines). And there's no need to worry about signal protocol on the bus, because the card's resident software handles it all for you

Product Name IEEE-488 Standard for Instrument Control

Product Number A280015

Compatible With



Apple II and III



Operating Systems

DOS 3.3

DQS 3 3 is the handy housekeeper developed by Aprille to help you take full advantage of your Disk # Floopy Disk Subsystem. DQS automatically keeps track of files, saves and retrieves information on a diskette, and performs a variety of other "lousekeeping" choics. If dynamically allocates diskette space, maximizing diskette capabily, DQS stands for Disk Operating System, 3.3 is the version update number. When you purchase an Apple Disk # with controller, you are buying an Apole Rloopy disk drive and DQS 3.3. Programs which operate under DQS 3.2 1 cannot be read by DQS 3.3 trops which operate under DQS 3.2 1 cannot read DQS 3.3 programs. For those Apple ### Plus owners who wish to use, or are currently using, programmes running under the previous operating system, Apple will continue to offer and support DQS 3.2.1 (Apple Product A2D0010).

Product Name DOS 3.3

Product Number

Not Applicable Compatible With Apple If family with minimum of 32K

ProDOS

ProDOS provides increased competibility between Apple II and Apple III environments and the higher performance required for more sophisticated applications.

ProDOS' design trees the Apple II from the physical limitations of the 143 kilobyte Apple Disk III drives. Using ProDOS, the Apple II can handle larger files, such as those often required by word processing and data base applications, and can recognise any storage device, either floppy or hard disk, that used Apple's protection.

storage device, either floppy or hard disk, that used Apple's protocols.

ProDOS presently supports Applesoft BASIC and 6502
Assembler languages, but its SOS-like design will enable other languages to be added easily, all using the same data formats as SOS.

ProDOS-based applications do not require hardware changes to the Apple II, Apple II plus or Apple IIe. The current Disk II interface card will work with DOS 3.3, Apple Pascal and ProDOS applications on all Apple IT's

Product Name ProDOS Product Number A202010

Compatible With Apple II family with minimum 64K memory

Apple III Sophisticated Operating System (SOS)

The Apple III Sophisticated Operating System (SOS) is a powerful software interface that helps you exploit Apple III's advanced system capabilities. With SOS, you don't need to worry about most internal system functions, such as which disk divide contains a file, which bank of memory is being used, or which slot a peripheral interface card occupies. These and other functions are all controlled automatically. Designed for easy expandability as well as operational convenience, SOS enhances and ensures Apple III system flexibility. A simple-to-use SYSTEM CONFIGURATION PROGRAM (supplied on diskette) allows over inexperienced users to custom-configure SOS to meet their specific needs.

Product Name Apple III Sophisticated Operating System (SOS)

Compatible With Any Apple III system

Apple SoftCard III System (CP/M):

The Apple SoftCard III System, designed by Microsoft Corporation, is a complete hardware/software system that enables you to run software developed for the Z80° microprocessor and CPIM.* Operating System on your Apple III computer. You'll immediately expand your program operations with access to most CPIM-supported software and languages, and be ready for future programs being developed for both the Apple III and Z80-based computers. In addition to expanding your repertoure of programs, the Apple SoftCard III System provides compatibility of interface between Z80 processor and Apple III features such as device drivers, utilities, and peripheral operations. You can take advantage of these leafures, to transfer SOS data files to CPIM diskettes, to store data on the 5-megabyte ProFile hard-disk mass storage system, and much more.

The Apple SoftCard III circuit board actualty contains a Z80 microprocessor which lefs you switch between the Apple's 6502 and the Z80 by simply rebooking; so you can use software written for either processor.

Product Name Apple SotiCard III System (CPIM)

Product Number

Compatible With An Apple III personal computer system A compatible printer and interface card (optional) An optional external disk drive, Disk III or Profile



Accessories and Peripherals

The Apple Daisy Wheel Printer



The Dasy Wheel Printer is a fully-formed character, impact printer which produces documents of professional correspondence quality at an average speed of 40 characters per second. Highly reliable and simple to operate, it works with any Apple computer system. The Apple Dasy Wheel Printer handles all kinds of documents. Irom form letters printed on letterhead to linearist statements up to 198 characters per line in length. The Apple Daisy Wheel Printer improves the quality and impact of your letters and documents, because its fully-formed, highly readable characters give all your printed communications a professional look.

Interfaces quickly with your system by plugging directly into the back panel of the Apple III, or into a connector on the Super Serial Interface Card for the Apple III or Apple II Plus.

Technical Specifications
Parameter
Print Speed.
Interface: Asynchronous Sonat (RS-232C) OCITEV-24
Connector — 25 pin miniature
Forms: Single sheet or continuous forms; 38.1 cm (15 inches) maximum width
Fonts: 130-character "daisy" printwheeks in various alphanumenc type stytes

Character Spacing:

10, 12, and 15 characters per inch, plus proportional

Command

ASCII; space, backspace, carriage return, line feed, horizontal tab, form feed, end-of-text, acknowledge, X-on, X-off

Special Mode Commands:

Graphics model forward and backward print mode; Program mode for hammer intensity and ribbon movement

Přiyšičál Parameterší Weight = 18.8 kg (37 lbs) Width = 59.0 cm (23.22°) Height = 17.5 cm (6.87°) Depih = 377 cm (14.84°)

The Apple Daisy Wheel Printer

Product Number A3M0027

Product Name

Compatible With

Any Apple III system
Any Apple III system
Any Apple III or Apple II Plus system
with a Super Serial Interface Card
installed

Lisa Personal Office System

The Apple Imagewriter Dot Matrix Printer



The Apple Imagewriter is a NEW dol matrix printer providing SUPERIOR levels of performance. The Imagewriter has been designed by Apple software experts and delivers unmatched system compatibility. Printing is accomplished via a 9-wire purithead producing characters within a 7-by 9 matrix for near letter quality text and graphics at densities from 72 to 160 dots per sich. The life of this printhead is rated in excess of 100 million characters. Both a friction lead platen and a pair of pin feed tractors are incorporated to allow printing on individual cut sheets, continuous fan-fold forms and roll stock.

Benefits and leatures of the Apple Imagewriter

© 60% laster than other comparable Dot Matrix Printers. Print speed of 180 cps Intelligent print routines delivers throughput....up to 72 tines per minute. For a higher density text it prints 120 characters per second

© uslom designed case to complement Apple products AND control audible noise to less than 53 dB(A)

© Graphic images printed at dot densities up to 180 dots per Inch Graphics and text can be mixed in the same line of print. Provides image definition and clarify previously unavailable.

Eight user selectable font sizes plus up to 175 user programmable characters; multiple character sizes (9, 10, 12, 13.4, 15 and 17 CPI) and proportional printing; eight user selectable graphic dot densities; subscript and superscript.

All switches conveniently located, snap-on ribbon cassette, simple forms loading and quiet operation.

Easily accessible interior, modular construction, spokejed components and convenient test points

Product Name Apple Imagewriter Dot Matrix Printer

Product Number A9M0303

Compatible With

Any Apple III System Any Apple IIe or Apple II Plus system with a Super Serial Interface Card

installed Lisa Personal Office System



Accessories and Peripherals

Printwheels



Apple printwheels are designed for high print quarty and ourability. Unlike manufacturers who place two characters on one spoke. Apple's printwheels have one spoke for each character. This eliminates shifting the carrage up and down, a major cause of wear and character misalignment. Apple has a complete line of plastic daisywheels, from Prestigo Elite to Boldface in English, French, German, and many other languages, as well as offering proportional specing.

Type style examples are listed below

DEMONSTRATION

Product Names
Apple Prestige 6/te 12
Apple Courier to
Apple Gothic 15
Apple Bold FacarErecutive PS

Product Numbers A2M0078 A2M0079 A2M0080 A2M0081

For Use With Apple Daisy Wired Printers operating with Apple # and # systems

This is a demonstration of the Apple Daisy Wheel Frinter using the Apple Prestige Elite 12, A2M0078 wheel. There are several wheels available to enable you to produce perfect letter quality every time.

0123456789 ABCDEFCHIJKLMNOPORSTUVWXYZ abcdefghijklmnopqratuvwxyz

This is a demonstration of the Apple Daisy Wheel Printer using the Apple Courier 10, A2NOD79 wheel. There are several wheels available to enable you to produce perfect letter quality every time.

0123456789 ABCDEFGHIJKLMNOFORSTUVWXYZ abcdefghijklmnopgrstuvwxyz

This is a demonstration of the Apple Dalsy Wheel Printer using the Apple Gothic 15, AZMOD80 wheel. There are several whoels available to anobie you to produce parfect letter quality every time.

0123456789 ABCDEFGNIJKLMNOPORSTUVMXYZ abcdefghljklmnopq/stuvmxyz

This is a demonstration of the Apple Daisy Wheel Printer using the Apple Bold Face/Executive PS, AZM0081 wheel. There are several wheels available to enable you to produce perfect letter quality every time.

0123456789 APCDEFGHIJKIMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz

Print Ribbons



Apple printer ribbons are manufactured from the highest quality materials available to produce on end product which combines maximum resistance to distortion, with the highest level of inking. In packs of six, there are two types of black ribbons available — cloth for the Apple Dot Matrix Printer and plastic for the Apple Daisy Wheel Printer With both types cassetted, installation is very easy, quick and clean

Product Name
D.W.P. Pack of 8 Print Ribbons
D.M.P. Pack of 6 Cloth Print Ribbons
Product Numbers
A2M0074
A2M0077
For Use With
Apple Daisy Wheel and Dot Matrix
Printers respectively



Accessories and Peripherals

Apple DWP Tractor Feed



This is a labour saving device which clips onto your Apple DWP and is used for printing large amounts of continuous stationery (numerous sheets of paper att joined together). If you produce longthy reports, tots of the same word processed latter, mailing lists, and addressed envelopes, by attaching the Tractor Feed, and with the use of continuously prepared stationery, the speed in which you can handle large volumes of paper work will be increased dramatically. Generally, the Tractor Feed will accommodate the following types of continuously prepared stationery:

• Plain Paper • A variety of envelopes

• Company letterheadings • Mails shot material-personalised

• Mailing list labels • Listing paper • Invoices/statements etc. Installation of the Tractor does not inhibit the use of single lad documents, quickly and easily the Tractor maybe removed for the user to return to preparing single page documentation.

Note: Before perchang any of the above femal, a halways very wise to ensure that the Tractor Feed will accommodate variotions in paper sure sprocket hore possers and are, and paper interferes the shadys best to ensure her good quarty materials are used and prepared proporty from reportable supposes.

ProFile



ProFile is the Personal Mass Storage System for Applie computers. ProFile is a complete elorage system; it includes a 514-inch, Winchester technology hard disk housed in a compact, sealed environment; device driver software, and the ProFile interface card. The Personal Mass Storage System dramatically increases the Apple's maximum on-line storage capacity to 5 million bytes, allowing you to store salety in one location information that would till 35 toppy disks.

Dasigned for professionals with targe-scale, low-cost-per-byte data storage and programming needs, the ProFile is an ideal fool for software and computer graphic developers, accountants, financial planners, doctors, educators, and engineers its Winchester technology provides rapid data access (approximately 10 times laster than the conventional floopy disk drive), letting you tackle-complex projects on the Apple more efficiently than ever before

ProFite

simplifies large data processing and programming tasks by allowing you to centralise 5 megabytes of storage in a single, compact unit.
Increases productivity, because it accesses data 10 times faster than the conventional floopy disk drive.

Assured data integrity, because its intelligent controller automatically scans for error conditions, and relocates marginal data blocks elsewhere on the disk, if necessary.

Is usable in any work environment because it is compact, light, simple to install, and extremely quiet.

Offers cost-effective data storage.

Is highly reliable, designed to offer better than 10,000 in use hours of mean time between time failures.

With your ProFile order, you will receive:

With your ProFile order, you will receive:

Apple ProFile hard disk drive

Apple if or Apple if ProFile imeriaco card (state type)

AC power supply cable

ProFile demonstration disk

ProFile Owner's Manual

Product Name PipFile

Product Number
A9M1005 (for Apple # and ##)
B0L50005 (For Lisa)
Apple # ProFile
Interface Kit
A2T10058

Compatible With Apple If Ismily Any Apple III system Lisa Office system

Box of 10 Apple Blank Diskettes

Apple blank diskelles are manufactured to the highest standard to protect all your information. These single sided, 5W linch floopies are ideal for storing mailing lists, word processed reports, budgets, and large data files.

Reserver*

Whenever you use your Apple If or Apple III you will always need to create back-up disks for security — ask your local dealer for

Product Name Box 10 Apple Blank Diskeries

Product Number



Accessories and Peripherals

Multi-User Hardware (Networking)

PC-Link

Now, a combination of 8 Apple II, #e and ## series
microcomputers can access one I.C.E. Microcube hard disk as a
result of the development of this unique resource sharing scheme

— I.C.E. software supplied with PC-Link segments the Microcube
With PC-Link each computer may run a separate application's
program. Afternatively, fully multiruser software may be used,
allowing different machines to read and update the same
information, as long as the authors of the software have designed it
for use with the PC-Link

— I.C.E. supports the most popular Apple # operating systems.

DOS 3.3, Pascal, CP/M and ProDOS (see page 10). These may all
installed simultaneously on an I.C.E. Hard Disk, Different data
storage volumes can be allocated to each operating system as
required.

required.

With the Apple III series I.C.E. supports SOS and CPIM. If SOS is used, up to four Information holding volumes may be accessed at once, while with CPIM one large volume may be accessed at once. Fully multi-user applications software can be used with the LC.E. PC-Link I.C.E. supply, on request, software tools that can be used by the authors of multi-user software to generate programs that share read-write access to information.

Alf I.C.E. support software has been completely rewritten and extensively tested during 1983. The I.C.E. utility software for the Apple II, IIe, and Apple III has been written to be fully user-interface compatible with the very popular Apple III Systems Utility Program distributed by Apple, Special care has been given to ensure that the I.C.E. utility software is robust and easy to use.

Technical Specifications

Technical Specifications

The PC-Link is built around an I.C.E.-designed computer board and contains

■ 280 interoprocessor running at 4 Megahertz.

■ 4 Kbytes EPROM program memory ■ 64 Kbytes RAM memory.

■ Out DMA controllers for input and output.

■ One channel board driving the cables to the linked

increamputers

I.C.E. interface cards, clugged into the microcomputers'
expansion connectors, attach each computer to PC-Link cables.

Cables up to 100 feet long may be used to link microcomputers.

Microcube
The I.C.E. Microcube represents the latest developments in hard disk technology, based on a Rodime 3½° Winchester Orlive. This unit is one of three types of I.C.E. Microcube.

Microcube is fully compatible with the Apple II, ite and ill senes microcomputers, and is supplied with interface card, installation and operating manual and full support software.

For farger data storage requirements, Microcube is also available in formatted capacities of 21 and 42 megabytes.

These units use the Rodine 5½° Drive.

Technical Specifications
The types issek time is 90 mittliseconds, with a maximum of 215 milliseconds.

Transfer rates:

Transfer rates:

From Orive to Controller, 5 Megablis per second

From Controller to host, 600 Kilobytes per second maximum.
(Subject to host computer and operating system limitations.)

Method of connection is via a 25-way flat cable to the LC.E
PC-Link, Datavault or Apple computer interface

Datavault completes the LC E.—Apple family link-up. Datavault will prove to be very popular very quickly, providing as if does the ideal solution to hard disk back-up by utilising the latest in low cost.

with prove to be very popular very quickly, providing as it does the ideal solution to haild disk back-up by utilising the latest in low cost streamer technology.

Datavariti is controlled by the host Apple microcomputer.

Software provided controls either a complete back-up of your Microcube, or a selective volume-by-volume back-up.

The supplied utility software will also format Datavault cartridge lapes. And the back-up software wildless a built-in error checking capability to ensure data integrity.

Datavault will work with all sizes of L.C.E. Microcubo. The 42 Megabyte Microcube requires two Datavault tapes per back-up, all other types of Microcube requires two Datavault tapes per back-up, all other types of Microcube require just one tape per back-up.

Technical Specifications.

Drive type and capacity:

51/4 inch Cipher 525CT, 22 5 Megabytes formatted capacity.

Tape: DC600A industry standard cartridge.

Transfer rate: (disk-tape, or tape-disk).

2.5 Megabytes per minute (and equal time for ventication).

Controller type:

Z80A running at 4 Megahertz.

4/K EPROM program memory.

6/4K RAM data memory.

Two Z80 DMAs for data transfers.

Western Digital Z793 controller.

Note: Datavault Tape Streamer cannot be used to back-up ProFile H.

Note: Datavault Tape Streamer cannot be used to back-up ProFile Hard Disks





- Product Names

 *ICE 10MB Hard Disk
 *ICE 21MB Hard Disk
 *8 Channel Multiplexor
 **Data Vault* Tape Streamer
 Apple IMM Multi-user Interface
 with 10 metres of cable.
- *Available separately from ICE Ltd is a 12 month on-site service contract for each of these products.

Compatible With Any Apple // Computer Any Apple /// system

Please Note
These are not Apple products, but
they are available from your local,
authorised Apple dealer. For
further details please contact

Littleton Road, Ashford, Middlese » TW15 1UU Tel (07842) 47271



Accessories & Peripherals

The Apple 410 Colour Plotter



If you want to display graphics and data in an easy-to-read, colourful format – whether on paper or on overhead transparency – the Apple Colour Ptotter is the ideal visual partner for your Apple.

— the Apple Colour Ptotter is the ideal visual partner for your Apple personal computer. This device will give you either paper print-outs or transparencies for overheads quickly, easily, and cost effectively. As you know, your Apple computer is adept at accepting data, storing it, and giving it back to you in countless ways. The Apple Colour Plotter simply helps you to visualise that data in an easy-to-understand graphics format.
The Apple Colour Ptotter lets you create presentation-quality printouts of charls, graphs, and other XY data for any type of business situation. Or it can help you to display complicated scientific or engineering data in a concise manner. It can also act as a training or teaching aid.
Since the results are in wild colour, your charts and graphs will be the centre of attention, and the data you display will be easy to understand.

understand

Apple Colour Plotter

Lets you create low-cost, effective graphics in upto eight brilliant colours.

Helps you to get started quickly with a
comprehensive choice of
supplies — transparancies, several sizes of paper,
and four different types of pens in eight different

colours.

Gives you four active pens, so you can do other work while your Apple Colour Plotter creates full-colour graphics.

Takes up little room, thanks to its small, tabletop configuration.

Provides multi-language capability with seven alternate fanguage font sets, including English, French, German, Italian, Swedish and Spanish.

With your Apple Colour Plotter.

With your Apple Colour Pletter you will receive: the Apple Colour Plotter a Multi-pen Capper Kit

- 8 power cord
- an extra luse

Product Number

A9M0302P for Colour Plotter Accessories ask for the Apple Recommended Retail Price List

Any Apple III system Any Apple III system

You will also need one of the following: Apple // Accessory Kit Oxder No. A3C0302U

Apple III Accessory Kill Order No. A3C0302U

With your Accessory Kit you will receive: a user's operating manual an installation manual

- Implied warranty and product
- registration

 one prockage of A4 plotter paper

 one package of four 0.3mm pens
 (red, green, blue, and black) for
 paper printouts

 one package of four 0.3mm pens
 (violat, brown, gold, and burnt
 orange) for paper printouts

Colour Plotter Supplies





With your Apple Colour Plotter you can buy numerous plotting supplies, depending on your requirements For hard-copy orintouts you can order the following paper

For hard-copy orintouts you can order the following paper packages:
One box of 50 A4 sheets (Order No. A9C0305)
One box of 50 A3 sheets (Order No. A9C0306)
To generate overhead presentation graphics, you can order Apple Plotter Transparency film:
One box of 50 8.5" x 11" paper-backed transparencies (Order No. A9C0300)
To eliminate the operation changes pages when present from pages.

To eliminate the need to change pens when moving from paper to transparencies, you can order an additional Mutti-pen Capper Klt (Order No. A900304)

For paper applications, you can order additional pens. Each order contains four pens in a resealable envelope.

Colour	Maurowy (0.3mm)	Wide (0.7mm)
	Order No.	Order No.
Black	A9G0300	A9G0301
Red	A9G0304	A9G0305
Green	A9G0308	eoeođea
Blue	A9G0312	A960313
Compo-1*	A9G0316	71E0©9A
Combo-211	A9G0320	A9G0321

For overhead transparency applications, you can also order additional pens. Each order contains four pens in a reseatable

Cotour	Narrow (0.3mm) Order No.	Wide (0.7mm) Order No.
Black	S080\$6V	A9G0303
Red	A9G0306	A9G0307
Green	A9G0310	A9G0311
Blue	A9G0314	A9G0315
Comba-1*	A9G0318	A9G0319
Comboi-2**	A9G0322	A9G0323

One per each of violet, buttil brange, gold land brown



Manuals and Tutorials

Apple He Owner's Manual



This manual is the first book you should read when you open the Apple IIe. All other manuals for the Apple IIe assume that you have read this book.

This manual is arranged so you can find the information you want guckly and easily, without having to read things you aren't interested in just yet. Here is an overview of what this manual contains.

contains
Chapter 1, "Assembling the System," explains how to unpack, set up, and connect your computer to a disk drive and either a relevision set or a video monitor. Chapter 2, "Gelting Acquainted," gives a few pointers on system and disk care. Chapter 3, "How the System Works." Chapter 4, "Using an Operating System." Chapter 5, "Getting Down to Business and Pleasure," outlines the kinds of ready-made programs available to use with your Apple #e computer. Chapter 6, "Programming the Ultimate Computer Skill" Chapter 7, "Adding More Pieces to the System," is a supplement to Chapter 1. Chapter 8, "Heip," tells you what you can do to logarity and correct problems with your system.

Product Name Apple Re Owners Manual Product Number A2L2001 For Use With ople to only



Applesoft Tutorial

This is the manual for you if you want to learn to program or want to lamiliarise yourself with programming. Either way, it is designed so you can have fun while you learn.

You will learn, for example, how to tell your computer to say helio to your friends, how to get your computer to act like a calculator, and how to program your computer to draw horses all over the

screen.

If you start at the beginning, try everything as it comes along, and make up your mind to take your time.

The Applesort Tutorial is organised so each skill you learn is a stepping stone to the next. If is also organised to help you pace yourself, "pause" marks are noted at convenient stopping points.

Chapters in this manual include: Learning to Program, introducing Applesort, Elementary Programming, Making Changes, Lots of Graphics, Strings and Arrays, Error Messages, Help, and More Programs to Play With

Product Name Applesoft Tutorial **Product Number** For Use With Apple #a only



Applesoft BASIC Programmers Ref. Manuals Vols; 1+2

This is a reference manual for the Applesoft BASIC programming language as implemented on the Apple IIe computer. It is intended for readers who have had some previous experience with programming, either in BASIC or in some other programming language. It assumes that you are familiar with the material in the Apple IIe Owner's Manual, and if you are a nowice programmer, that you have read the Apple IIe Applesoft Tutorial.

To make using this manual easier for you, we have divided it into two volumes. The complete table of contents, chapters one through eight, and the complete index appear in volume one. Volume two holds the appendices and the glossary; the index is also included in this volume for your convenience.

this volume for your convenience

How The Manual Is Organised

The manual has 8 chapters, 14 appendices, a glossary of torms, an index, and a quick reference card. All of it is designed to help you get the most out of Applesoff, Here's a description of what each chapter and appendix is about.

Chapter 1, "General Information," It discusses the programming environment in which Applesoff operates and letts how to create, modify, execute, and store Applesoff programs. Chapter 2, "Variables and Arithmatic," Chapter 3, "Control," covers the various statements available to direct the flow of program execution. Chapter 4, "Arrays and Strings," completes the material or variables begun in Chapter 2, Chapter 5, "Input/Output," describes Applesoff's facilities for getting information into and out of programs. Chapter 6, "Graphics," tells how to create, change, display, and store low- and high-resolution graphic designs.

Chapter 7, "Utrity Statements," contains information on a variety of miscellaneous Applesoff facilities for low-level control of the programming environment. Chapter 8, "Bringing It Alt Together," is more tutorial than any other chapter in the manual.

Appendix A, "Summary of Applesoft Statements given in Appendix A, Appendix B, "Syntex Detinitions," defines terms used in the formal syntactic delimitions of Applesoft statements given in Appendix A, Appendix C, "ASCII Character Codes," Appendix D, "Reserved Words," is a list of words (some of them rather odd-looking) that cannot be used in variable names. Appendix E, "Error Messages," Appendix F, "Peeks, Pokes, and Calls," Appendix G, "Hints for Program Efficiency," Appendix H, "Implementation Details."

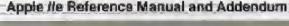
Product Name Applesoit Ref. Manual Product Code For Use With



Manuals and Tutorials

Applesoft BASIC Programmers Ref. Manuals Vols. 1 + 2 (continued)

Appendix I, "Display Formals for Numbers" Appendix J, "On-Screen Editing and Cursor Control" Appendix K, "40/60-Column Differences" Appendix L. "Comparison with Integer BASIC" Appendix M, "If You Have a Cassette Recorder" Appendix N, "Complete Listing of the Postage Rates Program" A fear-our Curck Reference Card, designed to act as a "memory log," gives an extremely birel description of each statement, function, operator, and variable type.



This manual contains detailed descriptions of all of the hardware and firmware that make up the Apple #e and provides the technical information that peripheral-card designers and programmers need. There is an Addendum, bound separately, that contains source listings of the builtin firmware.

This manual is designed to answer the question, What's inside the Apple #e it describes the internal operation of the Apple #e as completely as possible in a single volume. The criterion for deciding to include an Item of information was whether it would help an assembly-language programmer or peripheral designer.

Contents Of The Manuel
The material in the manual is presented roughly in order of Increasing intimacy with the hardware, the further you go in the manual, the more technical the material becomes. The main

Introduction Foreword and Chapter 1. Use of built-in features:
Chapters 2 and 3. How the memory is organised. Chapter 4.
Information for programmers. Chapters 5 and 6. Hardware implementation. Chapter 7. Additional information. Appendices and Addendum. The Addendum to the restrict chapters the source listing of the

The Addendum to this manual contains the source listing of the Monitor firmware. You can refer to it to find out more about the operation of the Monitor subroutnes listed in Appendix C.

Product Number

For Use With Apple //e only



DOS User's Manual

The DOS User's Manual will guide you step by step through the basics of using DOS. If you are learning to program or want to run ready-made programs or games, this manual will give you the information you need.

After you've read the material that came with your Apple I/a computer, you are ready for this manual.

How This Manual is Organised
The DOS User's manual is for a person who is beginning to use a computer, the user who will be running programs that are on disks or writing a sumple BASIC program.

Chapter 1, "A Tutorial For New DOS Users," is designed for you if you are a new computer user. Chapter 2, "An Overview of DOS," lells what you need to know to use DOS. Chapter 3, "Using Disks," deats with disks as a whole. Chapter 4, "Using Files," goes into managing individual tites. Chapter 5, "Using Programs Afready on Disks," discusses using application programs.

DOS User's Manual Product Number

For Use With Apple II, II 4 and IIe



Manuals and Tutorials

DOS User's Manual (continued)

Appendix A, "Dealing With 13-Sector Disks, guides a user who has 13-sector equipment. Appendix B, "Warnings and Error Messages," discusses several sources of warnings and error messages. Appendix C, "Programs on the DOS Disks," Appendix D, "Summary of DOS Operating Concepts and Commands."



DOS Programmer's Manual

The DOS Programmer's Manual is written for people who want to store programs and other information on dicks. It describes DOS 3.3, a disk operating system that allows you to place information on disks, change information already on disks, and retrieve information from cisks. DOS runs on Apple II, Apple If Plus, and Apple III ecomputers.

Organisation Of This Manual
This manual is designed as a reference. The topics covered become increasingly complex as you progress.
Each chapter begins with an introduction to the topics it contains and concludes with a summary of the commands that are

and concludenswith a summary of the commands that are discussed.

Chapter I describes the DOS environment and the DOS commands that are used primarily from the keyboard. Chapter 2 explains several ways of using DOS commands. Chapter 3 telts you about disk access for text fles and compares sequential and landom access fless and how to write programs that use them. Chapter 5 telts you how to use DOS to write a program that runs other programs. Chapter 6 describes binary files and commands.

Appendix A describes how to run a program on a 13-sector disk and how to convert 13-sector disks to 16-sector format. Appendix B explains disk storage. Appendix C discusses DOS error messages. Appendix D describes each program on the SYSTEM MASTER and the SAMPLE PROGRAMS disks. Appendix E is a summary of the DOS commands.

DOS commands

Product Name OOS Programmers Manual Product Number A2L2012 For Use With Apple II, II + and IIe



Applesoft Manual Set

A more favourable retail price is just on to customers if they decide to purchase the A2P2001 Applesoft Manual Set. This set of manuals comprises of A2L2003 Applesoft Tutorial, A2L2004 Applesoft Reference Manual and in the Applesoft Sampler Orisk The Disk features a collection of programs which should be studied in conjunction with the Applesoft Tutorial. The Applesoft Sampler menu consists of Example Programs from the Applesoft Tutorial, Tutorial Appendix E – More programs to play with, and "Postage Bates" – from the Applesoft Martual

Product Number A2P2001 For Use With Apple Re only



Software Development Tools

The Apple Workbench



The Apple Workbench is a series of technical software products from Apple Computer designed to help software developers create high quality applications for Apple systems. Apple has always encouraged independent programmers to develop applications software. Now, through the Workbench, Apple is further opening up its systems with development tools, information, and support needed by successful software developers.

Who would be interested in the Apple Workbench?

Any ogveloper interested in developing hardware or software for Apple systems would benefit from these software development

What distinguishes Apple Workbench products from other

what distinguishes Appra workbench products from other software?

The Workbench products are specifically designed for technically eigentated people. With a law exceptions, such as the DOS Programmer's Tool Kirl, tittle or no futerial information is provided with the Workbench software – just informative, well organised reference materials. These reference materials are packaged in sample loose-leaf format, with separate binders available so you can organise the reference materials according to you own needs.

What software products are in the Apple Workbench series? The first group of Apple Workbench products consists of six software packages. Each of these packages is purchased individually, and comes with software, complete documentation and a registration card (used for notification of software updates). These are the first six workbench products:

1. DOS Programmer's Tool Kit

This software package consists of the 6502 Assembler Tool Kit and the Applesoil Programmer's Tool Kil

The 6502 Assembler Tool KI) contains all the essembly-language programming looks you will need to program your Apple II system in its native kinguage under DOS 3.3.

The Applesoft Programmer's Tool KII is designed to help you use the full programming capabilities of the Apple # family of computers. Intended for programmers familiar with Applesoft BASIC and DOS 3.3.

2, ProDQS Technical Reference Manual

The diskette in this package contains ProDQS, Apple's new operating system for the Apple II, and the Exerciser, an interactive program that allows programmers to try out ProDQS calls from the keyboard running on ProDQS or SQS, such as those you will find in the ProDQS Assembler Tools package.

3. ProDOS Assembler Tools
The ProDOS Assembler Tools package contains all you will need to program your Apple // system in assembly language under ProDOS, trinctudes the same pieces as the 6502 Assembler Tool Kit portion of the DOS Programmer's Tool Kit (EDSAM, BUG BYTER, and RUQAD)

4. Apple Pascal Numerics
Now you can use double-precision real numbers and 64-Bit intergers in Apple Pascal for the Apple it end til with SANE (Slandard Apple Numeric Environment). This package incorporates full IEEE standard numerics, including single-double- and extended-precision types (32, 64, and 80 Bit), as well as functions (arithmetic, conversion, comparison, control, logarithmic, exponential, financial, and trigonometric).

5. Apple /// Pascal Tool Kit

This software package for use in developing Pascal programs on the Apple III system, includes the following powerful look to enhance your productivity

Apple III Pascal Compiler, enhanced version*

Compare III*

SortDu*

Pascal Pascal Compiler & Pascal Compiler &

Apple III Pascal Tool Kit regultes Apple III Pascal, version 1.1 *These tools are useful for developing Apple Pascal programs for the Apple # family on the Apple ##

6. Pronto: Apple III Pascal Debugger

6. Pronto: Apple III Pascal Debugger
With Pronto, you can now walk through your Pascal programs
and find out what's going on inside. It's fully interactive, with help
capabilities and inacros. If also displays values of variables Pronto
gives you complete control over execution. You may break from the
keyboard at any point, review the execution path, and insert break
counts in various parts of the program. Nonintrusive, it allows you to
debug white executing the program at full speed, with no
recompilation necessary; and it produces no effects on the
application screens.

Pronto requires Appla III Pascal (version 1.1) The Apple III Pascal
Technical Reference Manual is recommissided.

Product Names Workbench Binder DOS Programmers Tool Kill ProDOS Technical Releasee Manual ProDOS Assembler Tools

Product Numbers A7P0001 A2W0010

For Use With Apple // family W elddA



Your nearest Apple Dealer





Apple Computer (UK) Ltd
Eastman Way, Hemet Hempsicaa, Herts HP2 7HQ
Phone: (0442) 60244 (24 lines)
24 hour answering service Telex, 825834 APPLUK G
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